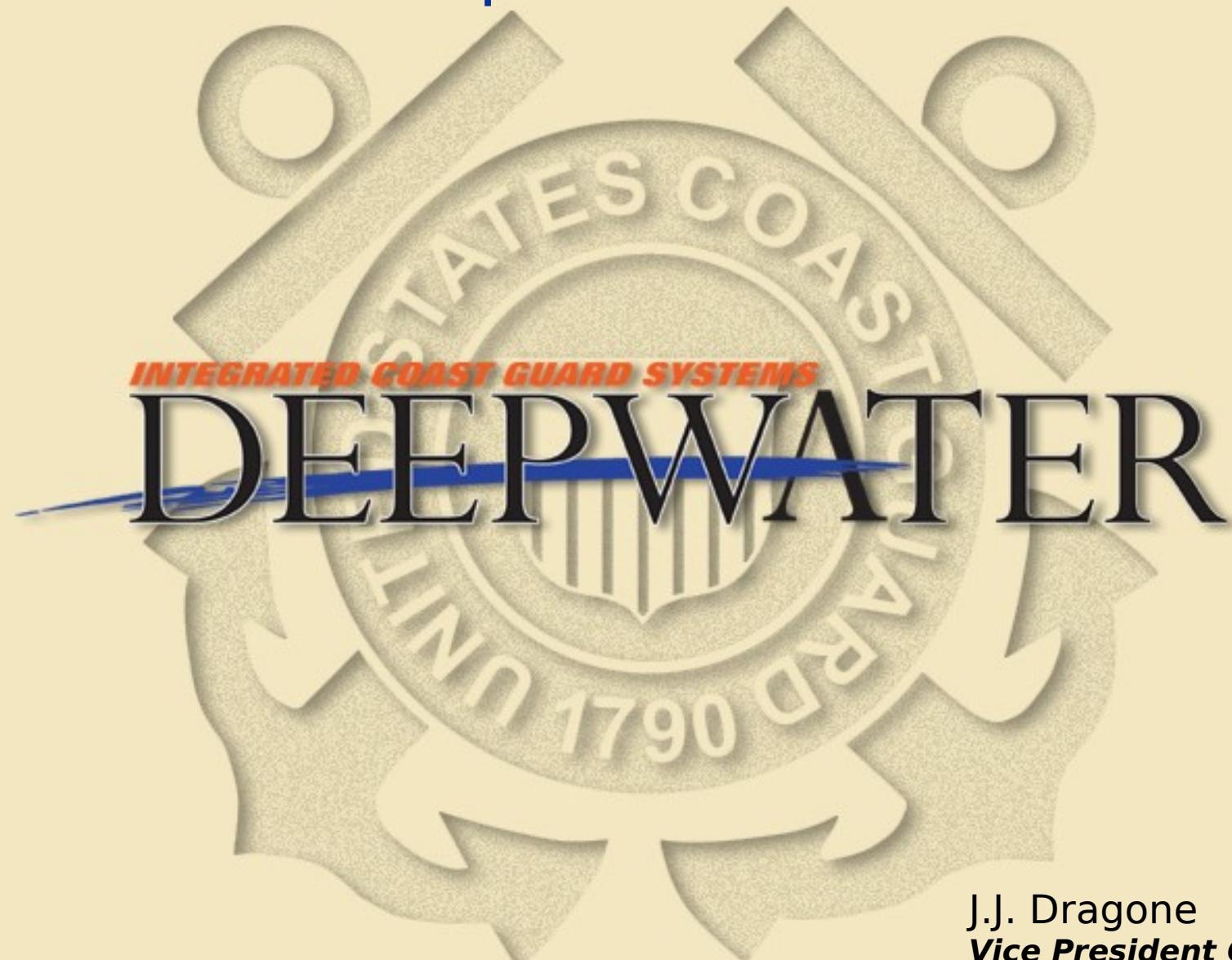


Responding to the U.S. Coast Guard's Deepwater Needs



J.J. Dragone
**Vice President Coast
Guard & International
Programs**

The Challenge

- Block Obsolescence of Major Assets
- Meeting Increasing Demand for Service
- Budget Realism



Developing an Integrated Response

- **Understanding the U.S. Coast Guard's Capability, Missions, Requirements and People**
- **Analysis of Alternatives**
- **Systems Engineering the Solution**
- **Open Business Mode™**



INTEGRATED COAST GUARD SYSTEMS



Innovation at all Levels

INTEGRATED COAST GUARD SYSTEMS

DEEPWATER

LOCKHEED MARTIN

**ARINC
EADS CASA
EADS Eurocopter
L3 Communications
LM Management & Data
Systems
LM Technology Services
Northrop Grumman IT
PROSOFT**

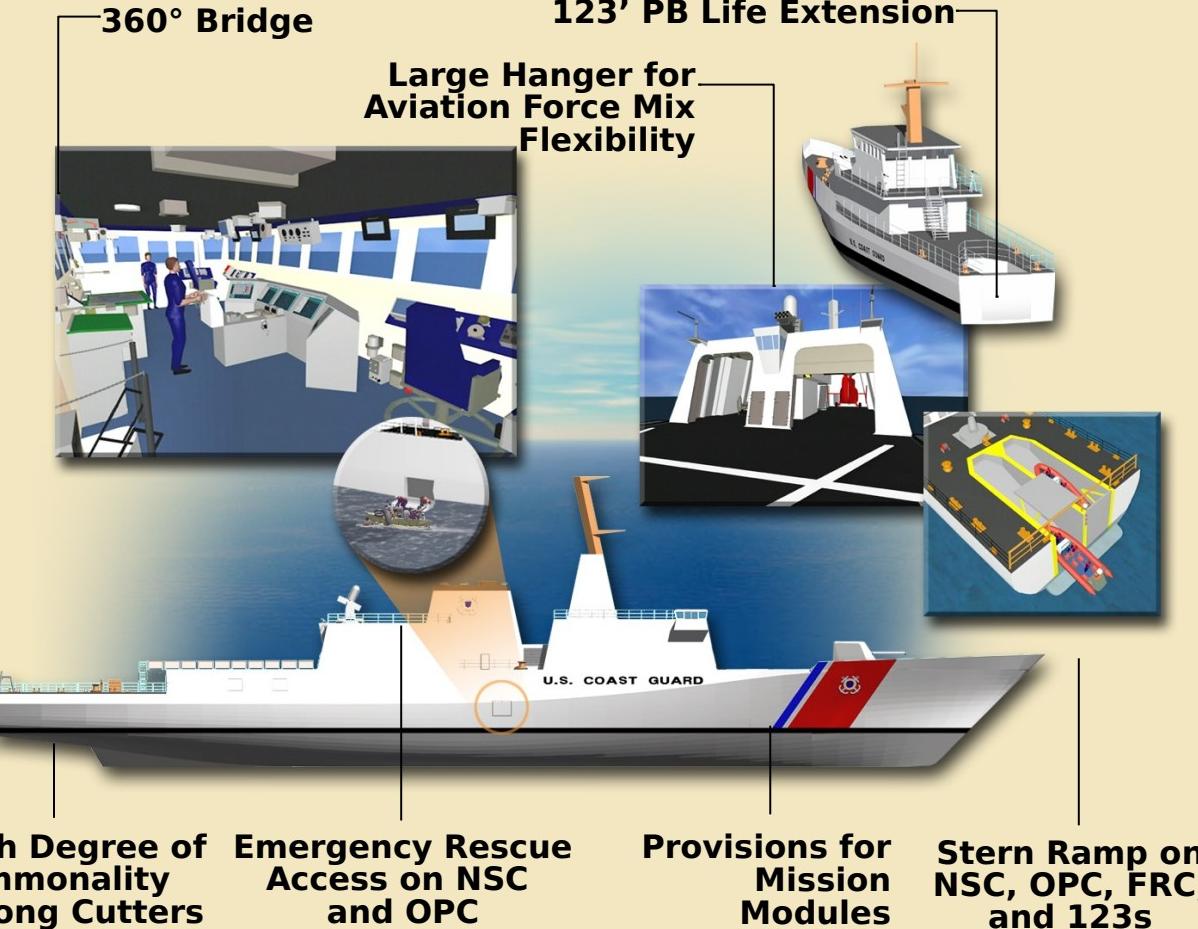
NORTHROP GRUMMAN

**Bell Agusta Aerospace
Corporation
Bell Helicopter Textron
Halter - Bollinger
M. Rosenblatt & Sons
Northrop Grumman Full Service
Center
United Defense, LP**

The Solution

- Legacy System Upgrades
- System Wide C⁴ISR Architecture
- New Surface and Air Assets
- Integrated Logistics System

The Surface Ships



Capability Improvements

- New Cutters designed with mission and capability growth
- Provisions for interchangeable mission modules to enhance flexibility tailored to missions
- Stern ramps on all Cutters and upgraded 123 PBs enhance small boat launch and recovery Operations with less crew
- Dramatically improved habitability features include 2/4 person staterooms, fitness centers, lounges, and learning centers

123' Patrol Boats



Fast Response Cutters



National Security Cutters



Long Range Interceptors

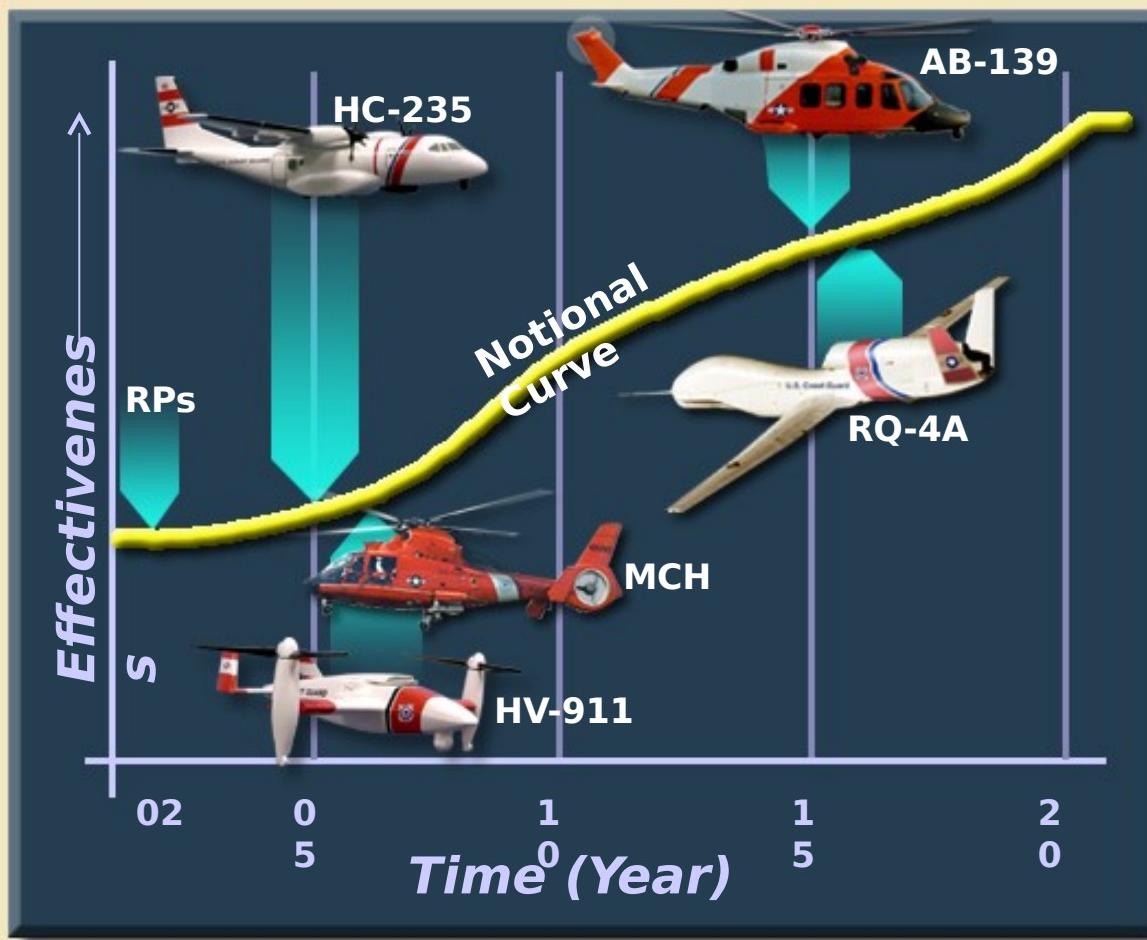


Offshore Patrol Cutters



Short Range Prosecutors

The Aviation Assets



ability Improvements

- All aviation assets include night/all-weather capability with radar and EO/IR sensors
- Increased communications and common operating picture capability
- MPA and VUAV introduced in first five years support early retirement of high-cost-to-operate legacy aircraft

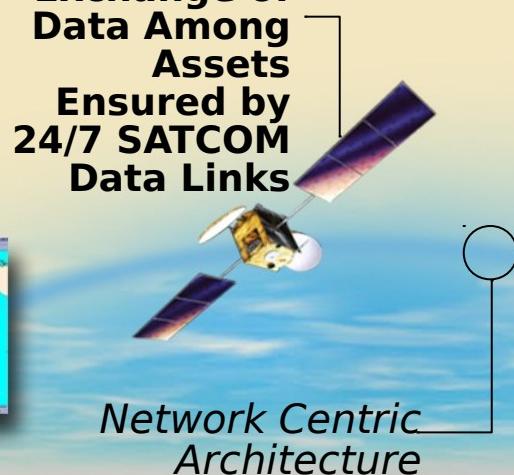


The C⁴ISR Capability

Tactical Data from Each Asset Integrated into a Common Operating Picture via CG-C2



Exchange of Data Among Assets Ensured by 24/7 SATCOM Data Links



Common C⁴ISR Architecture and Software Implementation Across All Assets Reduces Ops Costs and Accommodates Technology Refresh



Sensor Integration Achieved on Each Asset through Correlation of Specific Data and Fusion into the COP



COP Available on All Mobile and Shore Assets

Early Increased Situational Awareness, Surveillance, and Command is Provided Through a Common Operating Picture to Answer Homeland Security Requirements

The Manpower and ILS Enhancements

Condition-Based Maintenance



Modernization and
Technology Insertion

Asset Introduction Training



Personal Digital
Assistant (PDA)
Maintenance
Support

Computer-Based Training



***Increased Automation and State-of-the-Art Technology,
Decreased Manpower Requirements and Reduced Total
Ownership Cost***

System Solution Assets

Maritime Patrol Aircraft (MPA)



High Altitude Endurance UAV



HC-130



VTOL Unmanned Air Vehicle (UAV)



VTOL Recovery and Surveillance Aircraft



Multi-Mission Cutter Helicopter



Offshore Patrol Cutter (OPC)



National Security Cutter (NSC)



Fast Response Cutter (FRC)



Long Range Interceptor



Modified 123' Patrol Boat

Homeland Security

*The U.S. Coast Guard is
Coordinated and Focused on the Real Threats*

- **Real-time Sharing of Data and Intelligence**
- **Interoperability with all Other Agencies and Governments**
- **Identification, Interception and control of High Risk Vessel Threats and Cargo Threats**

- Opportunity to leverage technologies and capabilities between U.S. Coast Guard, U.S. Navy and other agencies
- Unique opportunity for international cooperation
- Model for capabilities based procurement

*IDS
A National
Priority*

